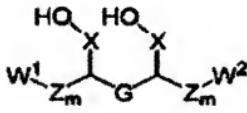


Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the current application.

Listing of Claims

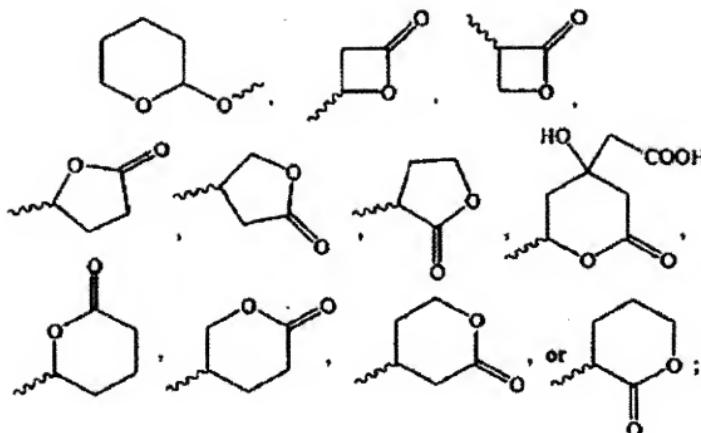
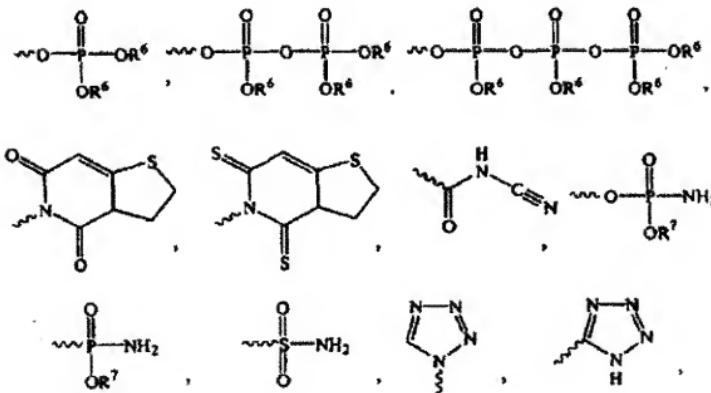
Claim 1 (currently amended): A compound of the formula I:

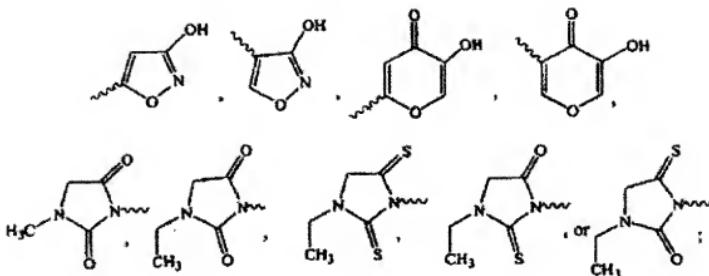


or a pharmaceutically acceptable salt, hydrate, solvate, or a mixture thereof, wherein

- (a) each occurrence of Z is independently CH_2 , $\text{CH}=\text{CH}$, or phenyl, where each occurrence of m is independently an integer ranging from 1 to 9, but when Z is phenyl then m is 1;
- (b) G is $(\text{CH}_2)_x$, where x is 1-7, $\text{CH}_2\text{H}=\text{CHCH}_2$, $\text{CH}=\text{CH}$, CH_2 -pheny- CH_2 , or phenyl;
- (c) W^1 and W^2 are independently L, V, $\text{C}(\text{R}^1)(\text{R}^2)$ - $(\text{CH}_2)_c$ - $\text{C}(\text{R}^3)(\text{R}^4)$ - $(\text{CH}_2)_n$ -Y, or $\text{C}(\text{R}^1)(\text{R}^2)$ - $(\text{CH}_2)_c$ -V where c is 1 or 2 and n is an integer ranging from 0 to 7;
- (d) each occurrence of R^1 or R^2 is independently $(\text{C}_1\text{-C}_6)$ alkyl, $(\text{C}_2\text{-C}_6)$ alkenyl, $(\text{C}_2\text{-C}_6)$ alkynyl, phenyl, or benzyl or when one or both of W^1 and W^2 is $\text{C}(\text{R}^1)(\text{R}^2)$ - $(\text{CH}_2)_c$ - $\text{C}(\text{R}^3)(\text{R}^4)$ - $(\text{CH}_2)_n$ -Y, then R^1 and R^2 can both be H to form a methylene group; or R^1 and R^2 and the carbon to which they are both attached are taken together to form a $(\text{C}_3\text{-C}_7)$ cycloakyl group;
- (e) R^3 is H, $(\text{C}_1\text{-C}_6)$ alkyl, $(\text{C}_2\text{-C}_6)$ alkenyl, $(\text{C}_2\text{-C}_6)$ alkynyl, $(\text{C}_1\text{-C}_6)$ alkoxyl, phenyl, benzyl, Cl, Br, CN, NO_2 , or CF_3 ;
- (f) R^4 is OH, $(\text{C}_1\text{-C}_6)$ alkyl, $(\text{C}_2\text{-C}_6)$ alkenyl, $(\text{C}_2\text{-C}_6)$ alkynyl, $(\text{C}_1\text{-C}_6)$ alkoxyl, phenyl, benzyl, Cl, Br, CN, NO_2 , or CF_3 ;
- (g) L is $\text{C}(\text{R}^1)(\text{R}^2)$ - $(\text{CH}_2)_n$ -Y, wherein n is an integer from 1 to 5 ~~0 to 5~~;

(h) V is:

(i) each occurrence of Y is independently (C₁-C₆)alkyl, OH, COOH, COOR⁵, SO₃H,



wherein:

- (i) R^5 is (C_1-C_6) alkyl, (C_2-C_6) alkenyl, (C_2-C_6) alkynyl, phenyl, or benzyl and is unsubstituted or substituted with one or more halo, OH, (C_1-C_6) alkoxy, or phenyl groups;
- (ii) each occurrence of R^6 is independently H, (C_1-C_6) alkyl, (C_2-C_6) alkenyl, or (C_2-C_6) alkynyl and is unsubstituted or substituted with one or two halo, OH, (C_1-C_6) alkoxy, or phenyl groups;
- (iii) each occurrence of R^7 is independently H, (C_1-C_6) alkyl, (C_2-C_6) alkenyl, or (C_2-C_6) alkynyl; and
- (j) X is $(CH_2)_z$ or Ph, wherein z is an integer from 0 to 4.

Claim 2 (original): The compound of claim 1, wherein G is $(CH_2)_2$.

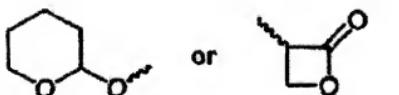
Claim 3 (original): The compound of claim 1, wherein each occurrence of Z_m is independently (CH_2) and m is 1-4.

Claim 4 (original): The compound of claim 1, wherein each occurrence of W^1 and W^2 is independently L.

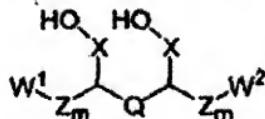
Claim 5 (original): The compound of claim 2, wherein L is $C(CH_3)_2-(CH_2)-OH$.

Claim 6 (currently amended): The compound of claim 1, wherein each occurrence of W¹ and W² is independently V [[v]].

Claim 7 (original): The compound of claim 6, wherein V is



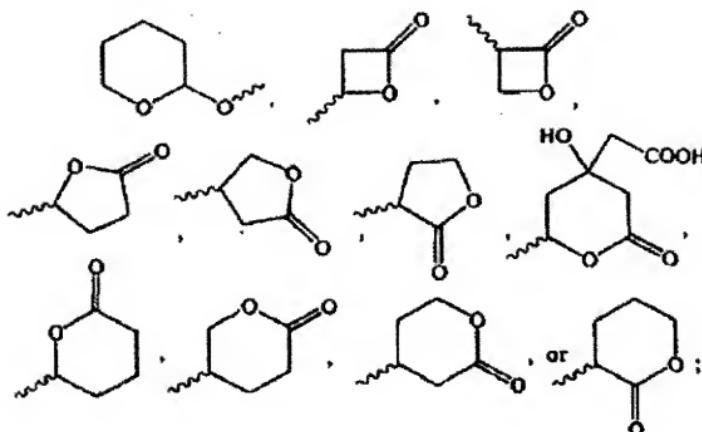
Claim 8 (previously amended): A compound of the formula II:



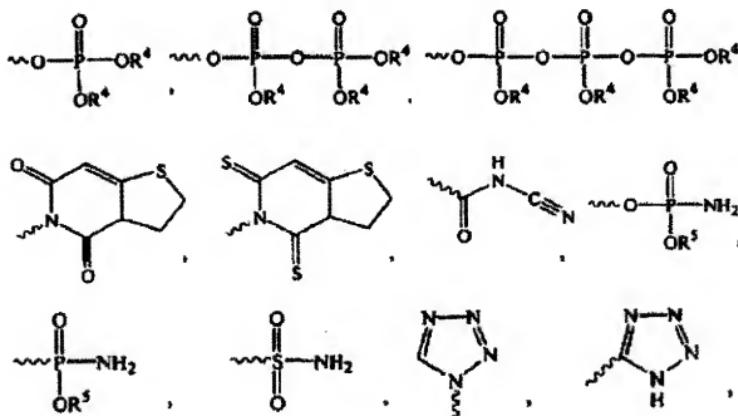
II

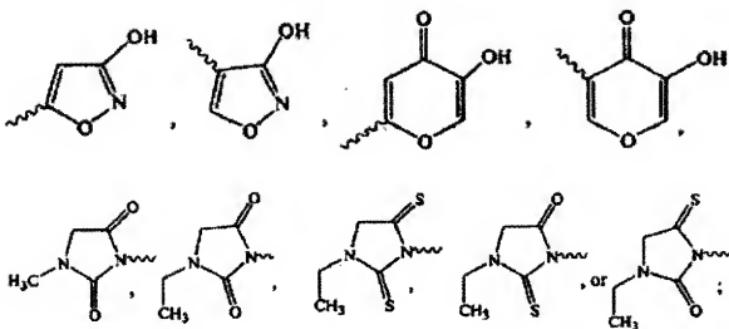
or a pharmaceutically acceptable salt, hydrate, solvate, or a mixture thereof, wherein:

- (a) each occurrence of Z is independently CH₂ or CH=CH, wherein each occurrence of m is independently an integer ranging from 1 to 9;
- (b) Q is (CH₂)_x, CH₂CH=CHCH₂, or CH=CH, where x is 2, 3, or 4;
- (c) W¹ and W² are independently L, V, or C(R¹)(R²)-(CH₂)_c-V, where c is 1 or 2;
- (d) each occurrence of R¹ and R² is independently (C₁-C₆)alkyl, (C₂-C₆)alkenyl, (C₂-C₆)alkynyl, phenyl, benzyl, or R¹ and R² and the carbon to which they are both attached are taken together to form a (C₃-C₇)cycloalkyl group;
- (e) L is C(R¹)(R²)-(CH₂)_n-Y, where n is an integer ranging from 0 to 5;
- (f) V is:



(g) each occurrence of Y is independently (C₁-C₆)alkyl, OH, COOH, COOR³, SO₃H,





wherein:

- (i) R^3 is (C_1-C_6) alkyl, (C_2-C_6) alkenyl, (C_2-C_6) alkynyl, phenyl, or benzyl and is unsubstituted or substituted with one or more halo, OH, (C_1-C_6) alkoxy, or phenyl groups,
- (ii) each occurrence of R^4 is independently H, (C_1-C_6) alkyl, (C_2-C_6) alkenyl, or (C_2-C_6) alkynyl and is unsubstituted or substituted with one or two halo, OH, (C_1-C_6) alkoxy, or phenyl groups; and
- (iii) each occurrence of R^5 is independently H, (C_1-C_6) alkyl, (C_2-C_6) alkenyl, or (C_2-C_6) alkynyl; and

(h) X is $(CH_2)_z$ or Ph, wherein z is an integer from 0 to 4.

Claim 9 (original): The compound of claim 8, wherein each occurrence of W^1 and W^2 is independently L.

Claim 10 (original): The compound of claim 9, wherein L is $C(CH_3)_2-(CH_2)_n-Y$.

Claim 11 (original): The compound of claim 10, wherein each occurrence of Y is independently OH, $COOR^7$, or $COOH$.

Claim 12 (previously amended): The compound of claim 8, wherein Q is CH=CH.

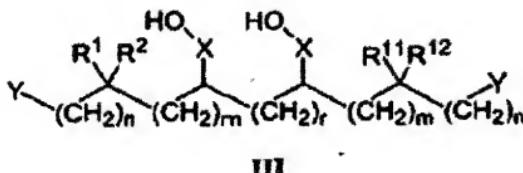
Claim 13 (original): The compound of claim 8, wherein Z_m is CH₂ and m is 1-3.

Claim 14 (original): The compound of claim 8, wherein each of W₁ and W₂ is independently C(R¹)(R²)-(CH₂)-V.

Claim 15 (original): The compound of claim 14, wherein R¹ and R² are each independently (C₁-C₆)alkyl.

Claim 16 (original): The compound of claim 15, wherein R¹ and R² are each methyl.

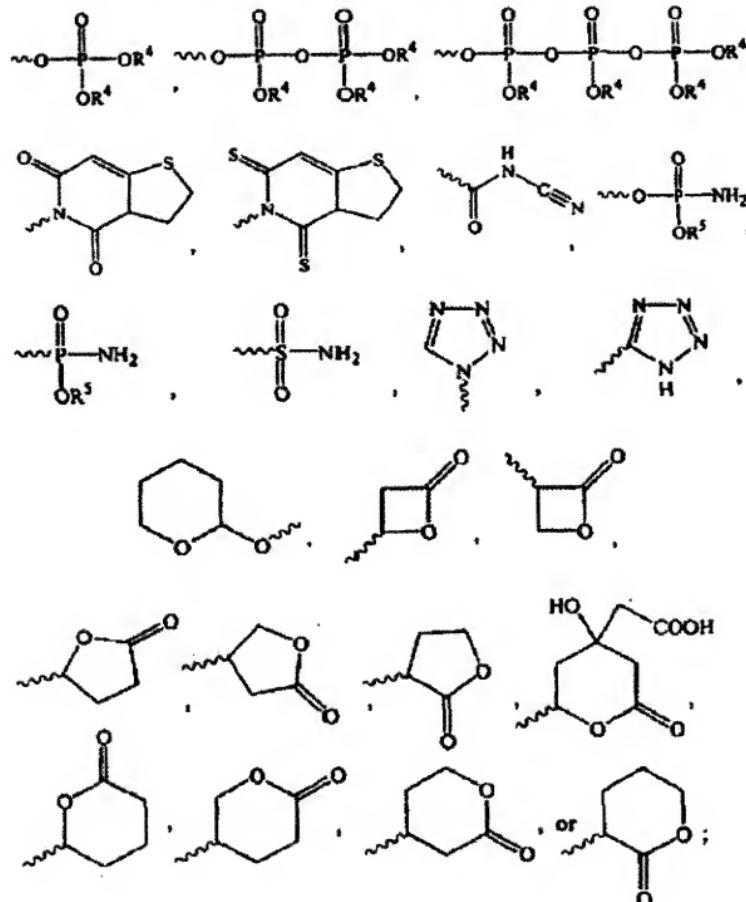
Claim 17 (original): A compound of the formula III

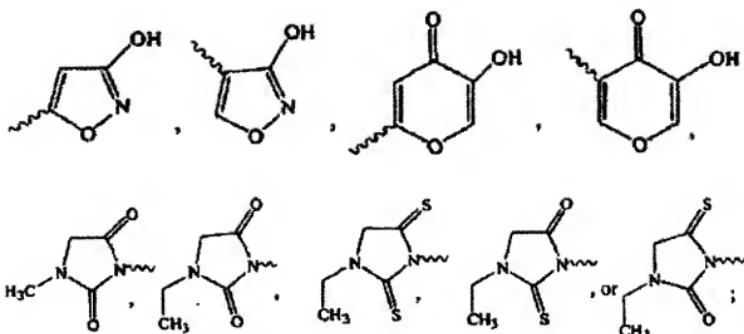


or a pharmaceutically acceptable salt, hydrate, solvate, or a mixture thereof, wherein:

- (a) each occurrence of m is independently an integer ranging from 1 to 9;
- (b) r is 2, 3, or 4;
- (c) each occurrence of n is independently an integer ranging from 0 to 7;
- (d) each occurrence of R¹, R², R¹¹, and R¹² is independently (C₁-C₆)alkyl, (C₂-C₆)alkenyl, (C₂-C₆)alkynyl, phenyl, benzyl, or R¹ and R² and the carbon to which they are both attached are taken together to form a (C₃-C₇)cycloalkyl group, or R¹¹ and R¹² and the carbon to which they are both attached are taken together to form a (C₃-C₇)cycloalkyl group; and

(e) each occurrence of Y is independently (C₁-C₆)alkyl, OH, COOH, COOR³, SO³H,





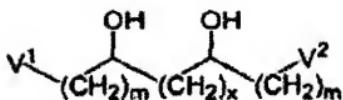
wherein:

- (i) R^3 is (C_1-C_6) alkyl, (C_2-C_6) alkenyl, (C_2-C_6) alkynyl, phenyl, or benzyl and is unsubstituted or substituted with one or more halo, OH, (C_1-C_6) alkoxy, or phenyl groups;
- (ii) each occurrence of R^4 is independently H, (C_1-C_6) alkyl, (C_2-C_6) alkenyl, or (C_2-C_6) alkynyl and is unsubstituted or substituted with one or two halo, OH, (C_1-C_6) alkoxy, or phenyl groups;
- (iii) each occurrence of R^5 is independently H, (C_1-C_6) alkyl, (C_2-C_6) alkenyl, or (C_2-C_6) alkynyl; and

(f) X is $(CH_2)_z$ or Ph, wherein z is an integer from 0 to 4.

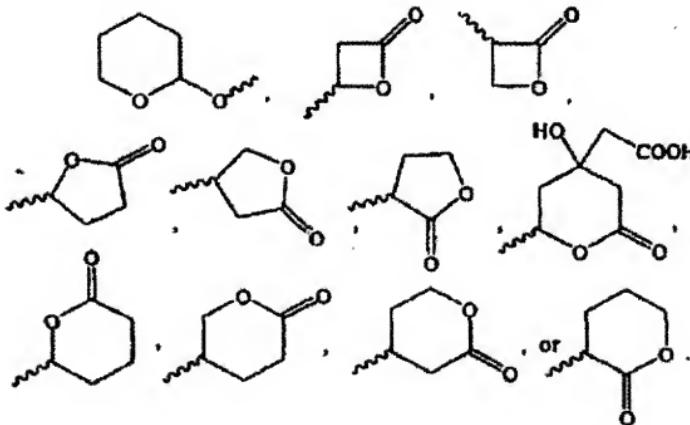
Claim 18 (original): The compound of claim 17, wherein each occurrence of Y^1 and Y^2 is independently OH, $COOR^3$, or COOH.

Claim 19 (original): A compound of the formula IV

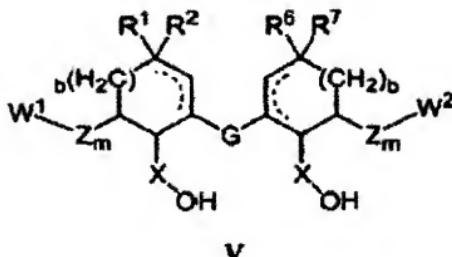
**IV**

or a pharmaceutically acceptable salt, hydrate, solvate, or a mixture thereof, wherein:

- (a) each occurrence of m is an independent integer ranging from 1 to 9;
- (b) x is 2, 3, or 4;
- (c) each of V^1 and V^2 is independently:

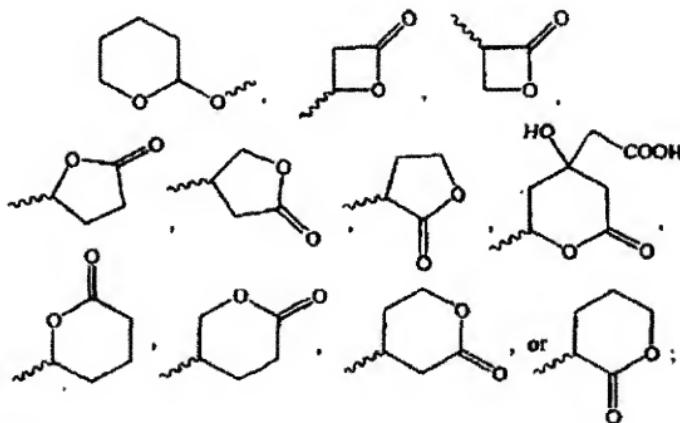


Claim 20 (original): A compound of the formula V:



or a pharmaceutically acceptable salt, hydrate, solvate, or a mixture thereof, wherein:

- (a) each occurrence of Z is independently CH_2 , $\text{CH}=\text{CH}$, or phenyl, where each occurrence of m is independently an integer ranging from 1 to 5, but when Z is phenyl then its associated m is 1;
- (b) G is $(\text{CH}_2)_x$, $\text{CH}_2\text{CH}=\text{CHCH}_2$, $\text{CH}=\text{CH}$, $\text{CH}_2\text{-phenyl-CH}_2$, or phenyl, where x is an integer ranging from 1 to 7;
- (c) W^1 and W^2 are independently $\text{C}(\text{R}^8)(\text{R}^9)-(\text{CH}_2)_n\text{-Y}$, where n is an integer ranging from 0 to 7;

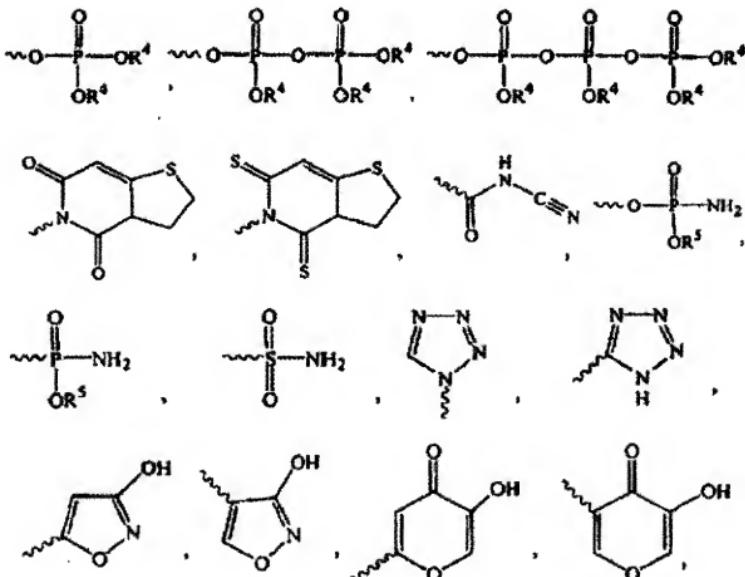


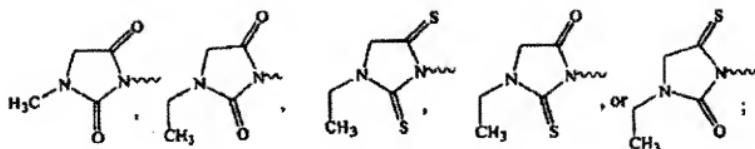
(d) each occurrence of R⁸ and R⁹ is independently H, (C₁-C₆)alkyl, (C₂-C₆)alkenyl, (C₂-C₆)alkynyl, phenyl, or benzyl or R⁸ and R⁹ can be taken together to form a carbonyl group;

(e) each occurrence of R¹ and R² is independently H, (C₁-C₆)alkyl, (C₂-C₆)alkenyl, (C₂-C₆)alkynyl, phenyl, or benzyl or R¹ and R² can be taken together to form a carbonyl group or R¹ and R² and the carbon to which they are both attached are taken together to form a (C₃-C₇)cycloalkyl group;

(f) each occurrence of R⁶ and R⁷ is independently H, (C₁-C₆)alkyl, or R⁶ and R⁷ can be taken together to form a carbonyl group or R⁶ and R⁷ and the carbon to which they are both attached are taken together to form a (C₃-C₇)cycloalkyl group;

(g) Y is independently (C₁-C₆)alkyl, OH, COOH, COOR³, SO₃H,



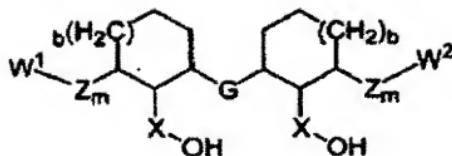


wherein:

- (i) R^3 is (C_1-C_6) alkyl, (C_2-C_6) alkenyl, (C_2-C_6) alkynyl, phenyl, or benzyl and is unsubstituted or substituted with one or more halo, OH, (C_1-C_6) alkoxy, or phenyl groups;
- (ii) each occurrence of R^4 is independently H, (C_1-C_6) alkyl, (C_2-C_6) alkenyl, or (C_2-C_6) alkynyl and is unsubstituted or substituted with one or two halo, OH, (C_1-C_6) alkoxy, or phenyl groups;
- (iii) each occurrence of R^5 is independently H, (C_1-C_6) alkyl, (C_2-C_6) alkenyl, or (C_2-C_6) alkynyl;
- (h) each occurrence of b is independently 0 or 1 or optionally the presence of one or more additional carbon-carbon bonds that when present complete one or more carbon-carbon double bonds; and
- (i) X is $(CH_2)_z$ or Ph, wherein z is an integer from 0 to 4.

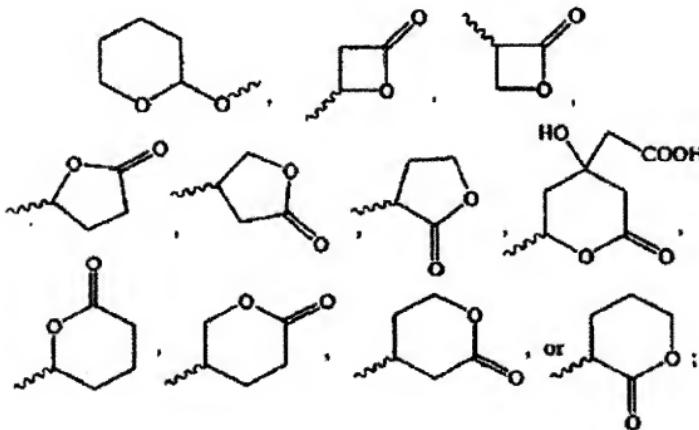
Claim 21 (original): The compound of claim 20, wherein each occurrence of W^1 and W^2 is an independent $C(R^1)(R^2)-(CH_2)_n-Y$ group and each occurrence of Y is independently OH, $COOR^3$, or $COOH$.

Claim 22 (original): A compound of the formula VI:

**VI**

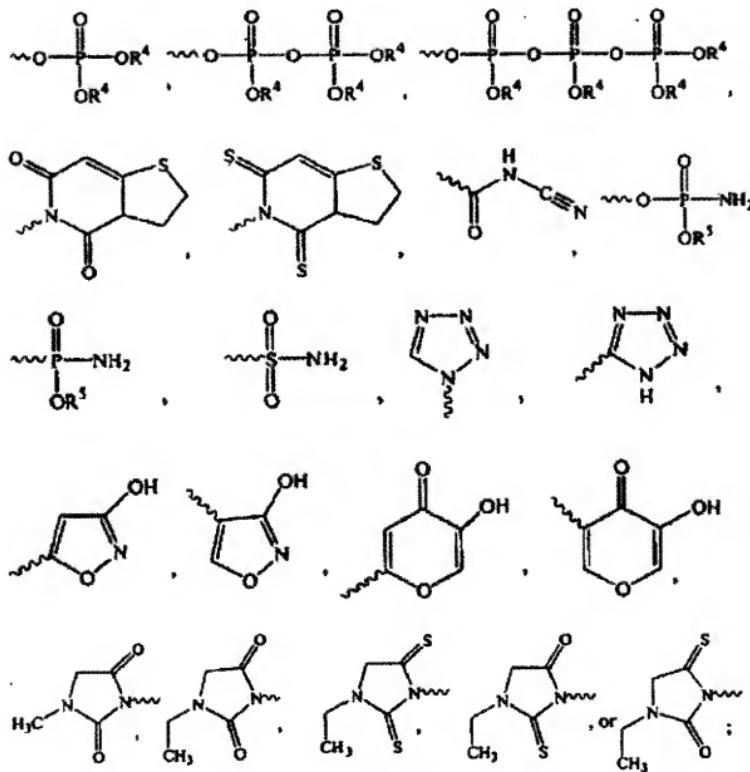
or a pharmaceutically acceptable salt, hydrate, solvate, or a mixture thereof, wherein

- (a) each occurrence of m is independently an integer ranging from 1 to 5;
- (b) X is $(CH_2)_z$ or Ph, wherein z is an integer from 0 to 4;
- (c) W^1 and W^2 are independently $C(R^1)(R^2)-(CH_2)_n-Y$, where n is an integer ranging from 0 to 7;



- (d) each occurrence of R^1 or R^2 is independently (C_1-C_6) alkyl, (C_2-C_6) alkenyl, (C_2-C_6) alkynyl, or R^1 and R^2 and the carbon to which they are both attached are taken together to form a (C_3-C_7) cycloalkyl group;

(e) Y is (C_1-C_6) alkyl, $(CH_2)_nOH$, $(CH_2)_nCOOH$, $(CH_2)_nCOOR^3$, SO_3H ,



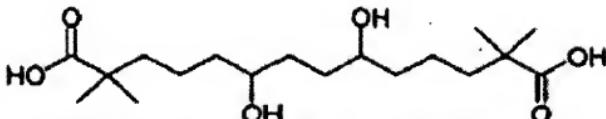
wherein:

(i) R^3 is (C_1-C_6) alkyl, (C_2-C_6) alkenyl, (C_2-C_6) alkynyl, phenyl, or benzyl and is unsubstituted or substituted with one or more halo, OH, (C_1-C_6) alkoxy, or phenyl groups,

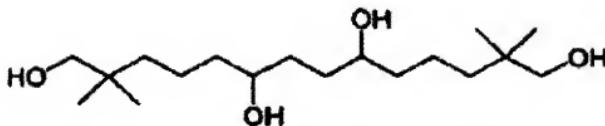
- (ii) each occurrence of R⁴ is independently H, (C₁-C₆)alkyl, (C₂-C₆)alkenyl, or (C₂-C₆)alkynyl and is unsubstituted or substituted with one or two halo, OH, (C₁-C₆)alkoxy, or phenyl groups;
- (iii) each occurrence of R⁵ is independently H, (C₁-C₆)alkyl, (C₂-C₆)alkenyl, or (C₂-C₆)alkynyl;
- (f) each occurrence of b is independently 0 or 1; and
- (g) X is (CH₂)_z or Ph, wherein z is an integer from 0 to 4.

Claim 23 (previously amended): The compound of claim 22, wherein each occurrence of W¹ and W² is independently C(R¹)(R²)-(CH₂)_n-Y and each occurrence of Y is independently OH, COOR³, or COOH.

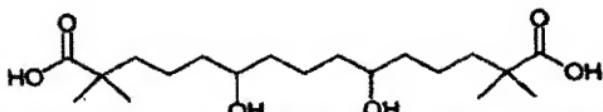
Claim 24 (previously amended): A compound of structure:



6,9-Dihydroxy-2,2,13,13-tetramethyl-tetradecanedioic acid;



2,2,13,13-Tetramethyl-tetradecane-1,6,9,14-tetraol;



6,10-Dihydroxy-2,2,14,14-tetramethyl-pentadecanedioic acid; and



2,2,14,14-Tetramethyl-pentadecane-1,6,10,15-tetraol.

or a pharmaceutically acceptable salt, hydrate, or solvate thereof.

Claim 25 (original): A pharmaceutical composition comprising a compound of claim 1, 8, 17, 19, 20, 22, or 24 and a pharmaceutically acceptable vehicle, excipient, or diluent.

Claim 26 (original): A pharmaceutical composition comprising a compound of claim 1, 8, 17, 19, 20, 22, or 24 and further comprising a second therapeutic agent.

Claim 27 (currently amended): A method for treating or preventing aging, Alzheimer's Disease, cancer, cardiovascular disease, diabetic nephropathy, diabetic retinopathy, a disorder of glucose metabolism, dyslipidemia, dyslipoproteinemia, hypertension, impotence, inflammation, insulin resistance, lipid elimination in bile, obesity, oxysterol elimination in bile, pancreatitis, pancreatitis, Parkinson's disease, a peroxisome proliferator activated receptor-associated disorder, phospholipid elimination in bile, renal disease, septicemia, Syndrome X, thrombotic disorder, modulating C reactive protein, or enhancing bile production in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically prophylactically therapeutically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 28 (original): A method for treating or preventing cardiovascular disease in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 29 (original): A method for treating or preventing a dyslipidemia in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 30 (original): A method for treating or preventing a dyslipoproteinemia in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 31 (original): A method for treating or preventing a disorder of glucose metabolism in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 32 (original): A method for treating or preventing a Alzheimer's disease in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 33 (original): A method for treating or preventing Syndrome X in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 34 (original): A method for treating or preventing a septicemia in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 35 (original): A method for treating or preventing a thrombotic disorder in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 36 (original): A method for treating or preventing a peroxisome proliferator activated receptor associated disorder in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 37 (original): A method for treating or preventing obesity in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 38 (original): A method for treating or preventing pancreatitis in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 39 (original): A method for treating or preventing hypertension in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 40 (original): A method for treating or preventing renal disease in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 41 (original): A method for treating or preventing cancer in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 42 (original): A method for treating or preventing inflammation in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 43 (original): A method for treating or preventing impotence in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 44 (original): A method for treating or preventing a neurodegenerative disease or disorder in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 45 (original): A method of inhibiting hepatic fatty acid synthesis in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 46 (original): A method of inhibiting sterol synthesis in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

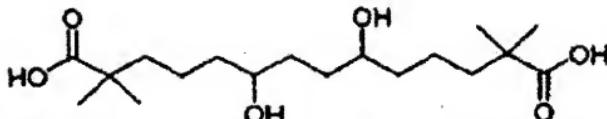
Claim 47 (original): A method of treating or preventing metabolic syndrome disorders in a patient, comprising administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 48 (original): A method of treating or preventing a disease or disorder that is capable of being treated by increasing HDL levels, which comprises administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

Claim 49 (original): A method of treating or preventing a disease or disorder that is capable of being treated by lowering LDL levels, which comprises administering to a patient in need of such treatment or prevention a therapeutically or prophylactically effective amount of a compound of claim 1, 8, 17, 19, 20, 22, or 24.

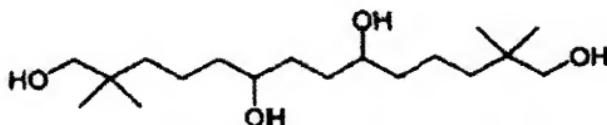
Claim 50 (original): A pharmaceutical composition comprising a compound of claim 1, 8, 17, 19, 20, 22, 24, or 26 and a pharmaceutically acceptable vehicle, excipient, or diluent which is administered in combination with a statin.

Claim 51 (original): A compound according to claim 1 wherein said compound has the structure:



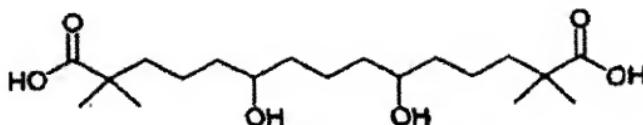
6,9-Dihydroxy-2,2,13,13-tetramethyl-tetradecanedioic acid;
or a pharmaceutically acceptable salt, hydrate, or solvate thereof.

Claim 52 (original): A compound according to claim 1 wherein said compound has the structure:



2,2,13,13-Tetramethyl-tetradecane-1,6,9,14-tetraol;
or a pharmaceutically acceptable salt, hydrate, or solvate thereof.

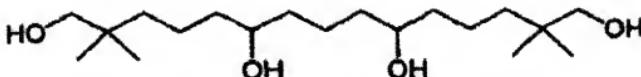
Claim 53 (original): A compound according to claim 1 wherein said compound has the structure:



6,10-Dihydroxy-2,2,14,14-tetramethyl-pentadecanedioic acid;

or a pharmaceutically acceptable salt, hydrate, or solvate thereof.

Claim 54 (original): A compound according to claim 1 wherein said compound has the structure:



2,2,14,14-Tetramethyl-pentadecano-1,6,10,15-tetraol.;

or a pharmaceutically acceptable salt, hydrate, or solvate thereof.